19 MAR 2003

METHOD AND APPARATUS FOR ADAPTIVE TUNING BIAS CURRENT FOR A MAGNETORESISTIVE HEAD

ABSTRACT OF THE DISCLOSURE

A bias current for a magnetoresistive read head is selected by defining a tuning range based on a maximum and a minimum bias current value for the head. A plurality of read operations are iteratively performed using a different bias current value over the tuning range for each iteration. The results of each read iteration are measured and a bias current is selected on the basis of the read error rates, and particularly those bias current associated with the lowest read error rate.

Figure 2

162162

G00002